

### ABSTRACT

A low dielectric constant material has a first backbone with an aromatic moiety and a first reactive group, and a second backbone with an aromatic moiety and a second reactive group,

- 5 wherein the first and second backbones are crosslinked via the first and second reactive groups in a crosslinking reaction without an additional crosslinker, and wherein a cage structure having at least 10 atoms is covalently bound to at least one of the first and second backbone.

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